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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/868,907 07/09/2001		Masaharu Iwai	010879	1290	
23030	7590 06/24/2003 NG,WESTERMAN &	HATTORI, LLP	EXAM	EXAMINER	
1725 K STREET, NW SUITE 1000 WASHINGTON, DC 20006			DONOVAN, LINCOLN D		
			ART UNIT	PAPER NUMBER	
			2832		
			DATE MAILED: 06/24/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No.

Applicant(s)

09/868,907

lwai et al.

Office Action Summary Examiner

Lincoln Donovan

Art Unit **2832**

	The MAILING DATE of this communication appears	on the cover sh	eet with	the correspondence address			
	for Reply						
	_ MONTH(S) FROM						
	MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.136 (a). In	no event, however, m	nav a reply t	pe timely filed after SIX (6) MONTHS from the			
mailing	mailing date of this communication.						
- If NO p	- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.						
	- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133) Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any						
earned	patent term adjustment. See 37 CFR 1.704(b).						
Status	Described to accomplication (a) filled as Any 22 C	2000					
1) X	Responsive to communication(s) filed on <u>Apr 23, 2</u> This action is FINAL . 2b) \square This act			·			
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.						
Disposi	tion of Claims						
4) 💢	Claim(s) 1 and 4-8			is/are pending in the application.			
4	4a) Of the above, claim(s)			is/are withdrawn from consideration.			
5) 🗆	Claim(s)			is/are allowed.			
6) 💢	Claim(s) 1 and 4-8			is/are rejected.			
7) 🗆	Claim(s)			is/are objected to.			
8) 🗌	Claims	are	subject	to restriction and/or election requirement.			
Applica	ntion Papers						
9) The specification is objected to by the Examiner.							
10)	IO) \square The drawing(s) filed on is/are a) \square accepted or b) \square objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	The proposed drawing correction filed on	-					
	If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) X Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
	a) ☑ All b) ☐ Some* c) ☐ None of:						
•	1. X Certified copies of the priority documents have been received.						
	 Certified copies of the priority documents have 			dication No			
	3. ☐ Copies of the certified copies of the priority de						
	application from the International Bure	eau (PCT Rule 1	7.2(a)).	Ť			
	ee the attached detailed Office action for a list of the	•					
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
		priority under s	35 0.5.0	J. 99 IZU and/or IZI.			
Attachm⊲ 1) ∏ No	ent(s) stice of References Cited (PTO-892)	4) Interview Sur	mmen/ (PTC	0-413) Paper No(s).			
F0 42 3	stice of Draftsperson's Patent Drawing Review (PTO-948)			t Application (PTO-152)			
_	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:	illiai i atolit	Application (1 10-132)			
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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1 and 4-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1 and 4, applicant should clarify what is intended by "setting the directions of orientation magnetization of each said magnet piece relative to the adjacent joining face, at an acute angle (or less than 90°)."

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, as best able to be understood in view of the rejections under 35 U.S.C. 112, second paragraph, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kan et al. (figure 8a)[US 4,557,582] in view of Kan et al. (figures 7a-7b) and Japan 2-222110.

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Kan et al. discloses a magnet roller [figure 8a] comprising:

- a shaft [9]; and

- a plurality of magnet pieces [31-34] mounted at the periphery of the shaft arranged such that the directions of the orientation magnetization of adjacent magnet pieces facing joining faces thereof coincide with roller radial directions and the magnetization converging towards the outside of the joining face.

Kan et al. (figure 8a) disclose the instant claimed invention except for: the specific arrangement of the faces of the joints between the adjacent magnets.

Kan et al. (figures 7a-b) discloses the pole pieces having differing sizes changing the magnetization of the roller [figure 7a-b].

Japan 2-222110 discloses a plurality of adjacent pole faces offset from each other.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the offset design with differing sized pole pieces, as suggested by Kan et al. (figures 7a-b) and Japan 2-222110, with the magnetization pattern of Kan et al. (figure 8a), for the purpose of controlling the magnetization density.

Response to Arguments

5. Applicant's arguments filed 04-23-03 have been fully considered but they are not persuasive.

Applicant argues that Kan discloses parallel orientation magnetization directions of respective magnet pieces, set at substantially 45° to the joining faces with no convergence. Examiner disagrees. Applicant has not clearly set forth the reference points from which the angles are determined. As best

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understood, Kan discloses convergence toward "an outside apex" of a joining face at angles less than

90°.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office 6.

action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is

reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS

from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the

mailing date of this final action and the advisory action is not mailed until after the end of the

THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the

date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

calculated from the mailing date of the advisory action. In no event, however, will the statutory

period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner 7.

should be directed to Examiner Lincoln Donovan whose telephone number is (703) 308-3111.

The fax number for this Group is (703)-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-1782.

LDD

June 19, 2003

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